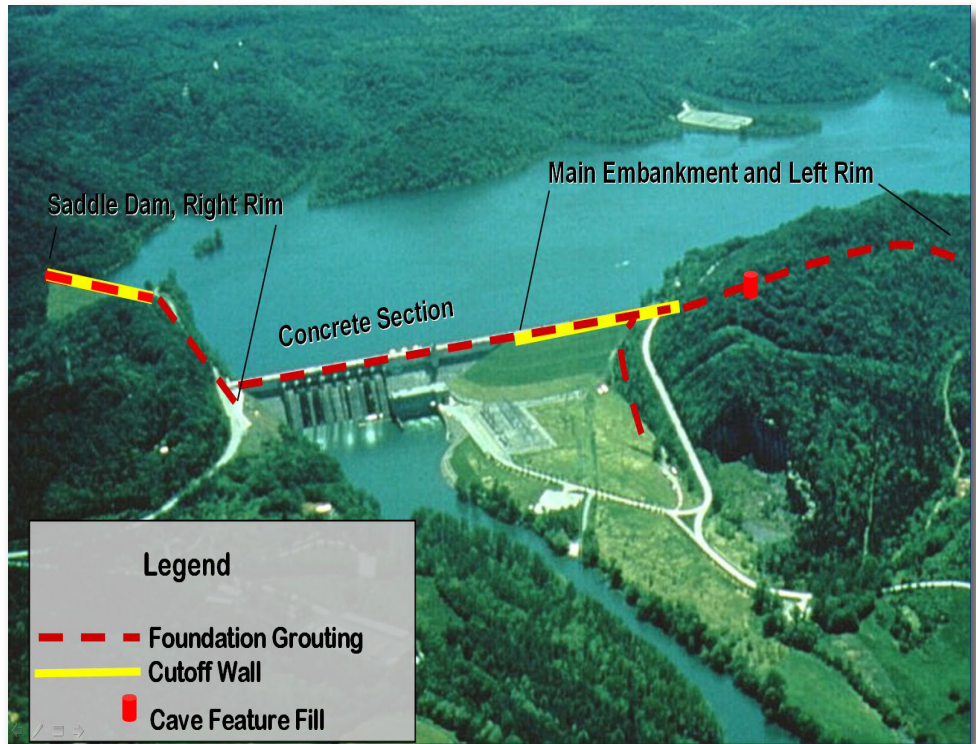


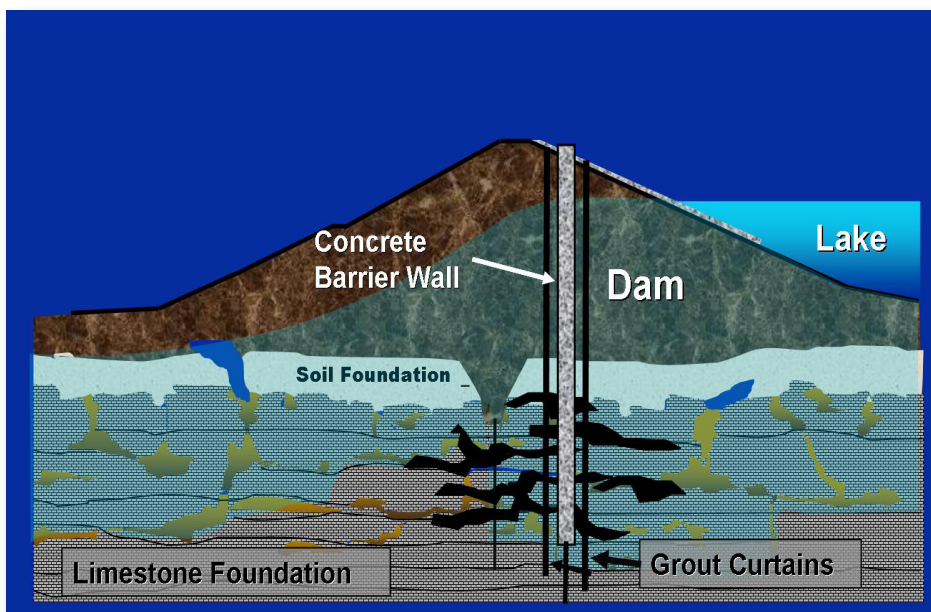
The Plan to Fix

The Nashville District Corps of Engineers obtained Washington approval in late 2006 to begin a major rehabilitation of Center Hill. The plan includes grouting, as well as modern concrete barrier walls to stop the seepage. As environmental mitigation for loss of flow, a slotted bulkhead (referred to as an “orifice gate”) was built to provide a minimum of continuous, oxygenated flow. In addition, a small 60 year-old powerhouse generator will be rehabbed to ensure it is capable of operating continuously.

The concrete barrier walls will be built within the main dam and saddle dam embankments, running the entire length of both.



The seepage rehabilitation will be accomplished with two major construction contracts: 1) Foundation Grouting at the Main Dam and Left Rim; and 2) Foundation Grouting at the Right Rim and Saddle Dam with barrier walls into the foundations of the Earthen Saddle Dam and Main Dam.



This simplified section view of the earthen embankment illustrates the two-phased construction of grouting and cut-off wall treatment of the foundation. The grout lines and barrier wall will be placed just upstream of Highway 96 (centerline of the dam).

The walls will extend deep into the rock foundation, and combined with grouting, will cut off seepage and stop erosion.

The total estimated cost of the rehabilitation plan is \$265 million. The project is funded through annual appropriations from Congress. The Corps is committed to fund the work and construction is estimated to be completed in 2013.

The Major Rehabilitation plan will stabilize the dam and improve its long-term reliability, securing public safety and ensuring Center Hill Dam and Lake are stable for many years to come.



US Army Corps
Of Engineers ®
Nashville District

Center Hill Seepage Schedule

